

REPLACEMENT SHEET

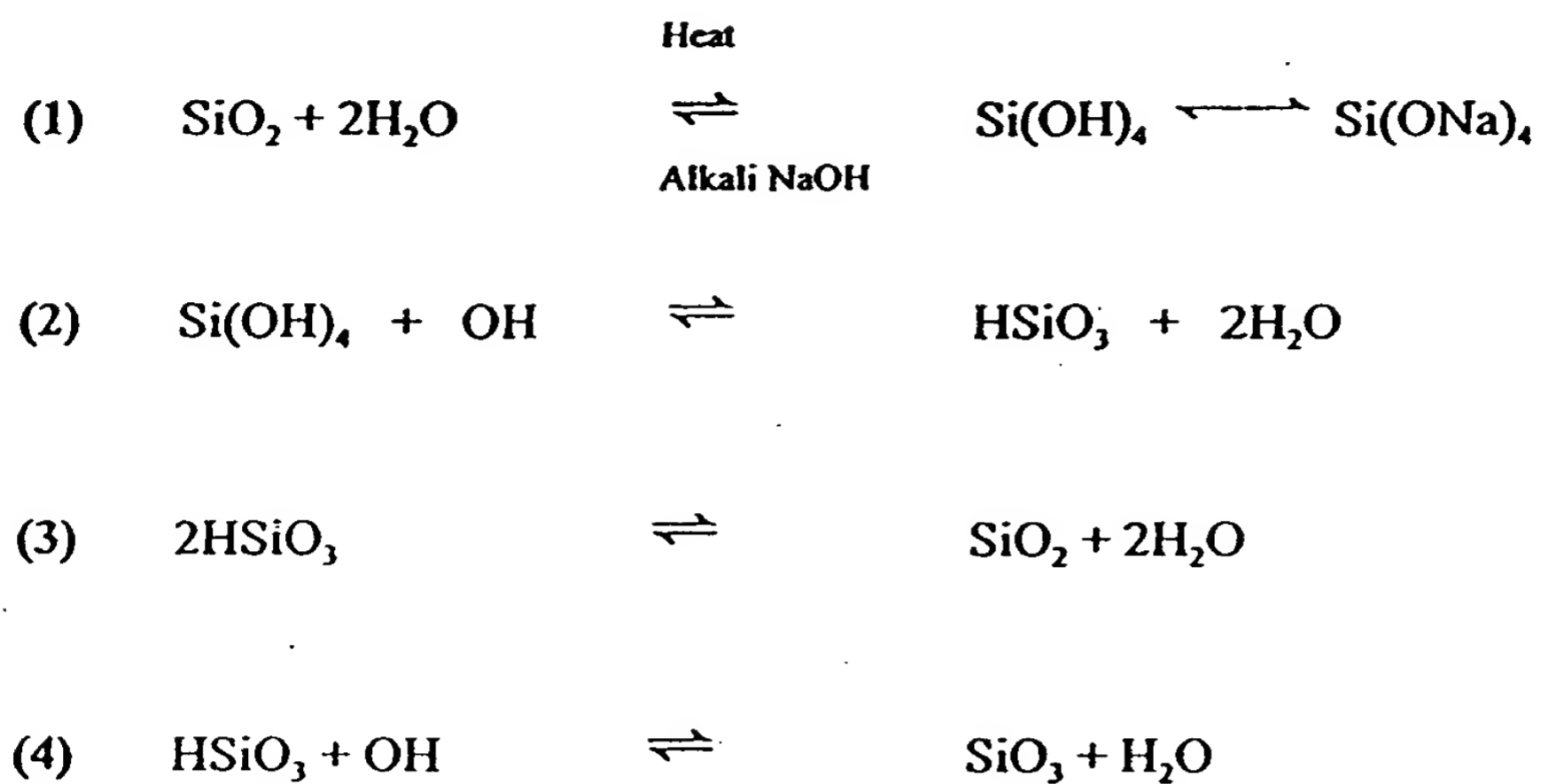


Fig. 1



REPLACEMENT SHEET

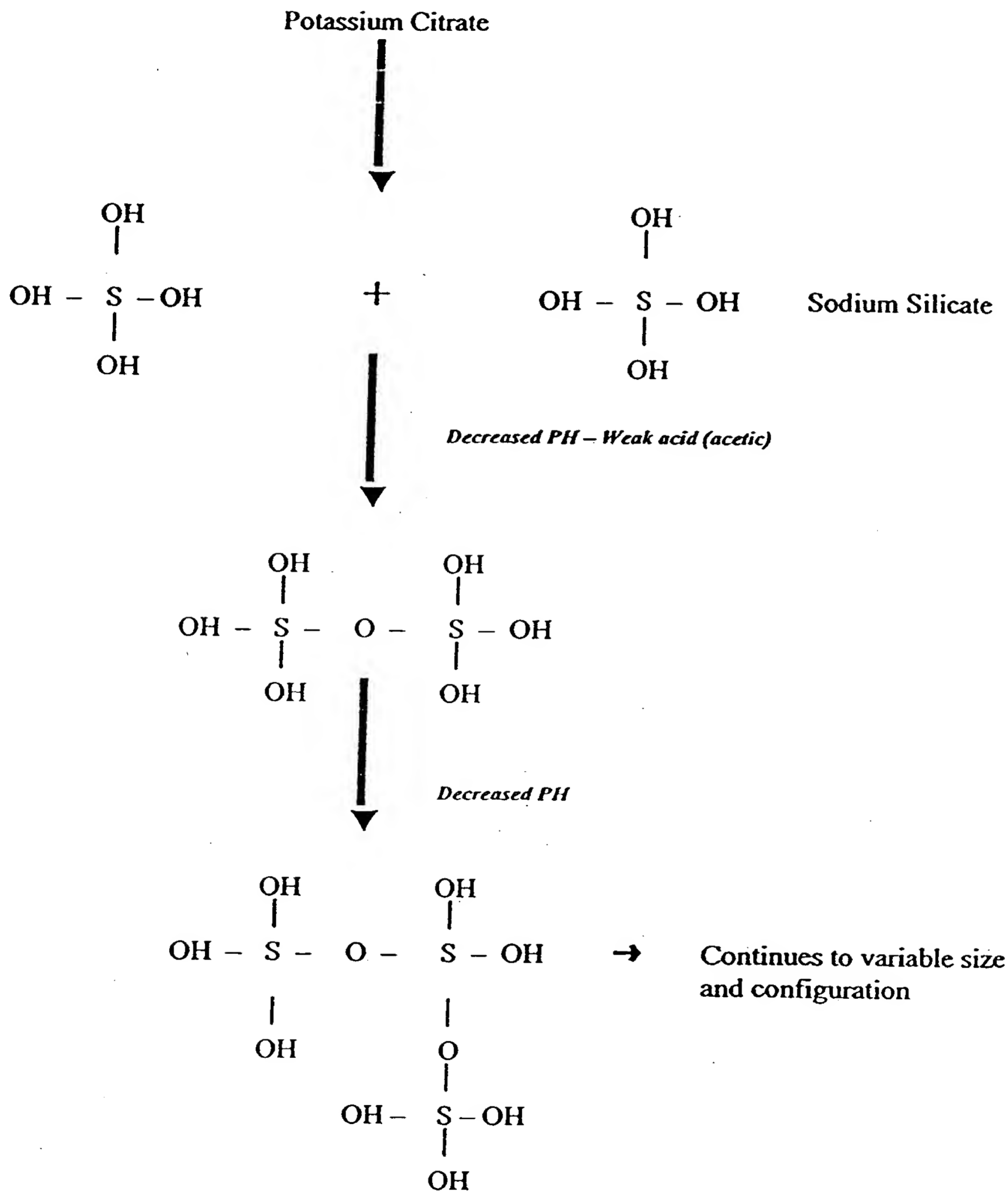


Fig. 2



REPLACEMENT SHEET

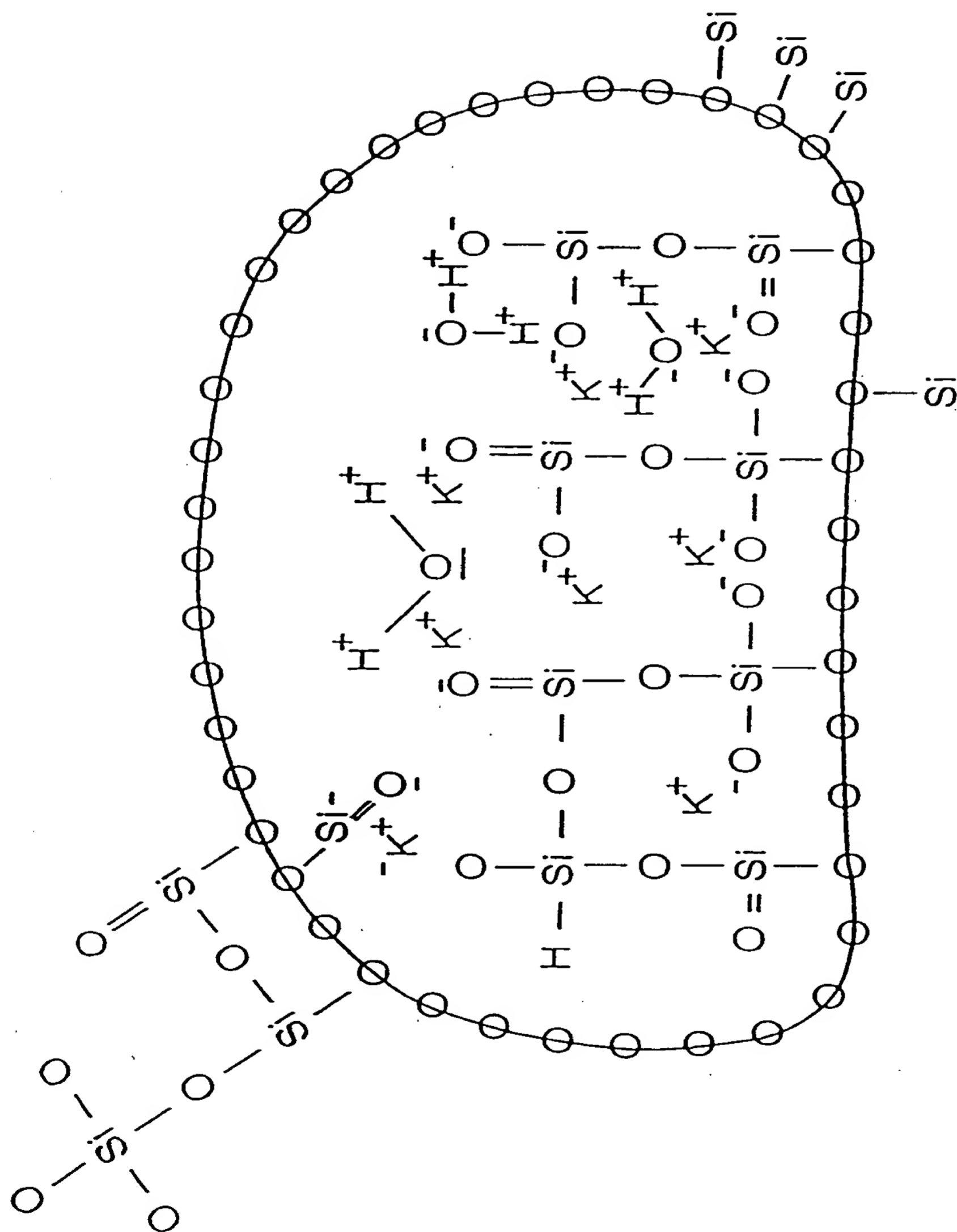


FIG. 3



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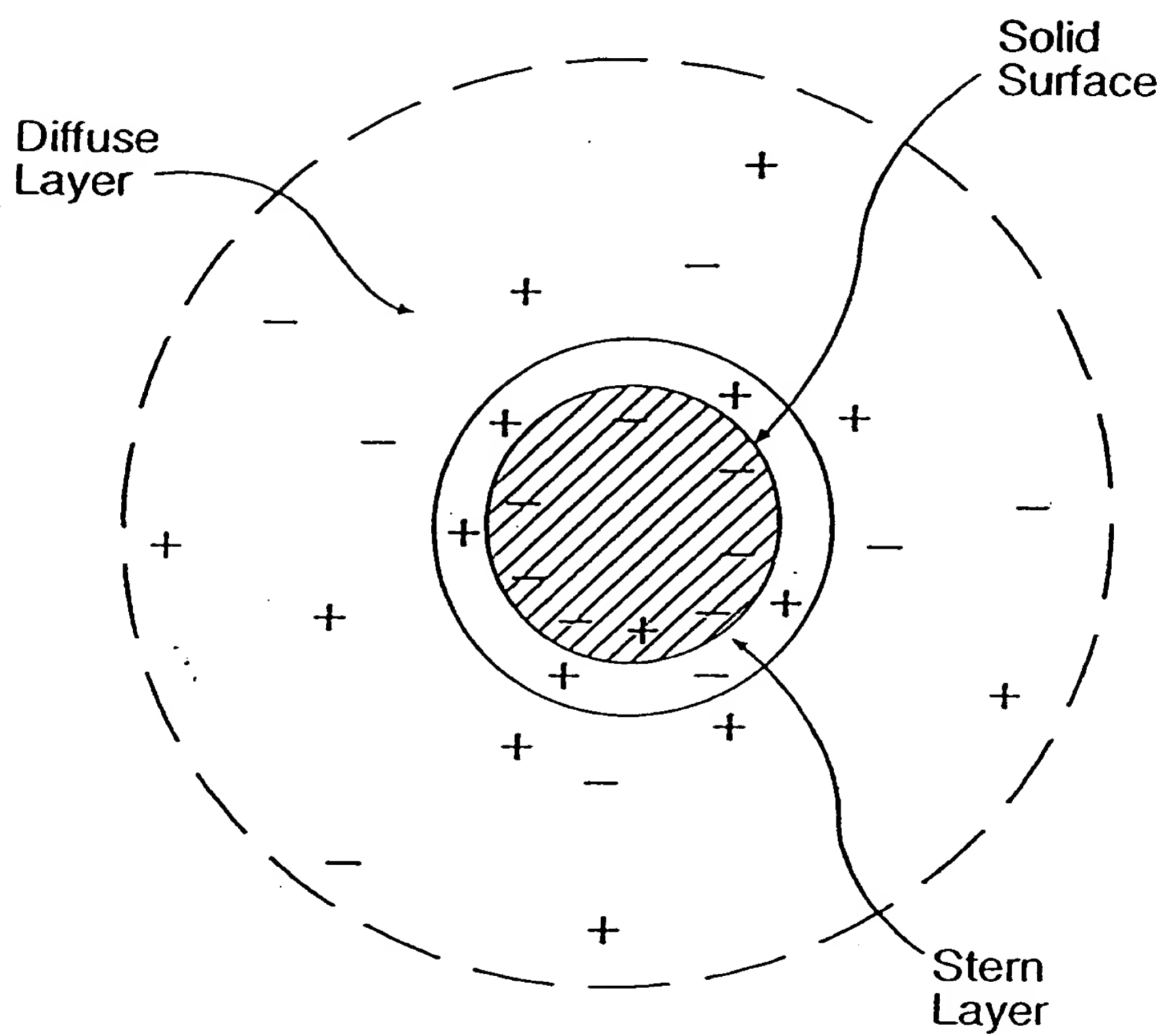


FIG. 4



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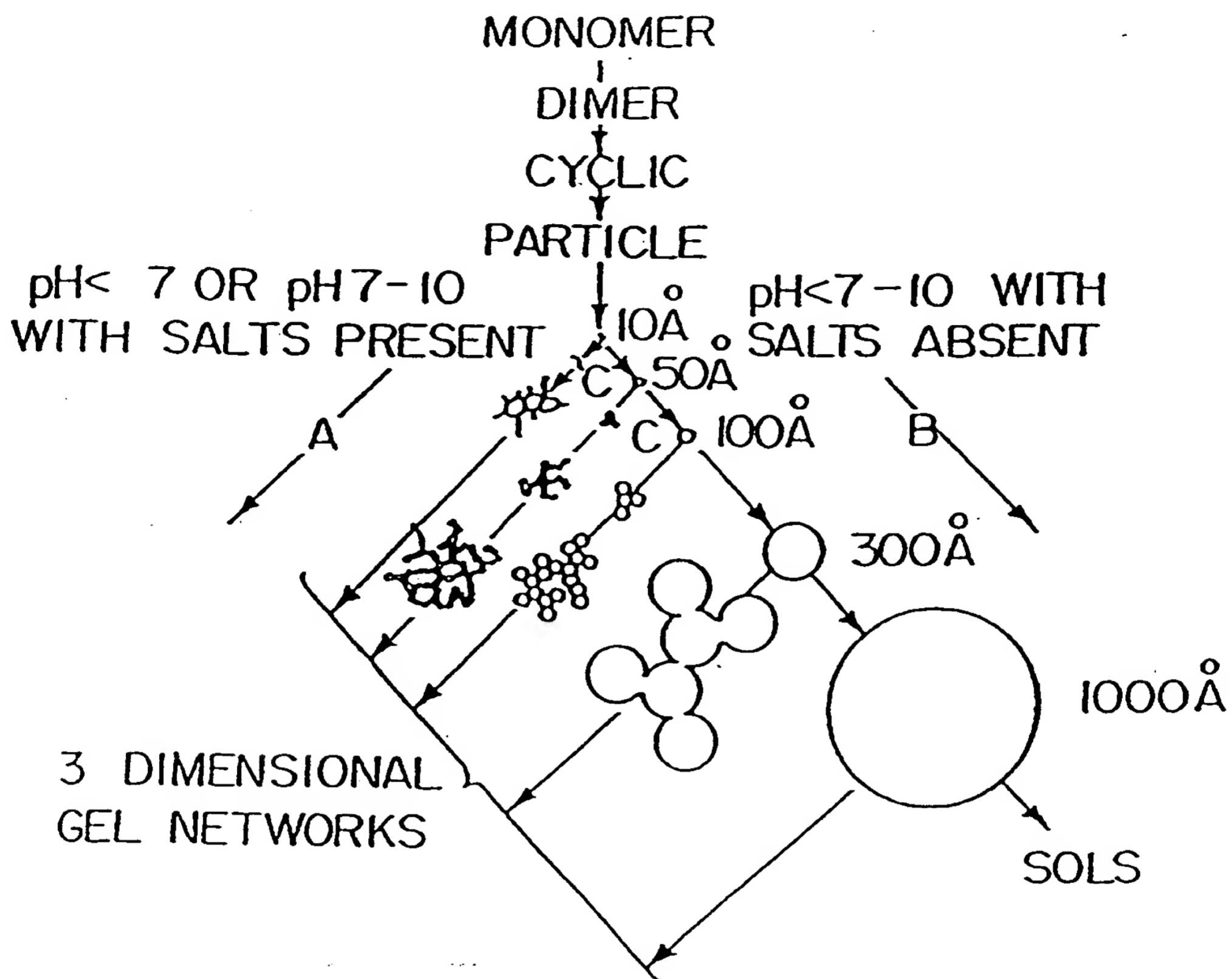


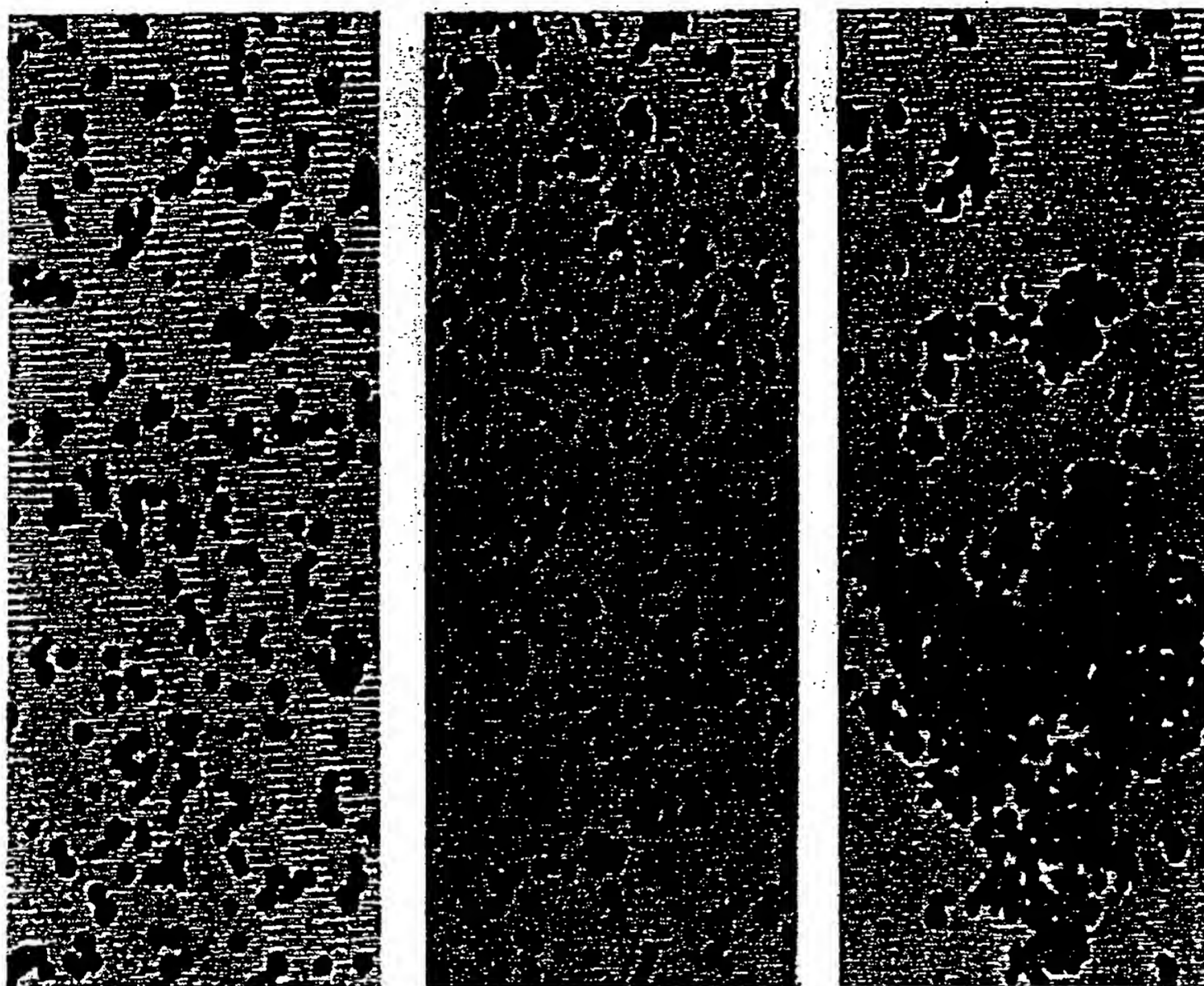
FIG. 5



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Colloid Chemistry of Silica and Silicates



Electron micrographs showing stages of aggregation of 35 millimicron silica particles: *left*, colloidal aggregates; *center*, aggregates approaching colloidal size; *right*, supercolloidal aggregates or precipitate.

FIG. 6



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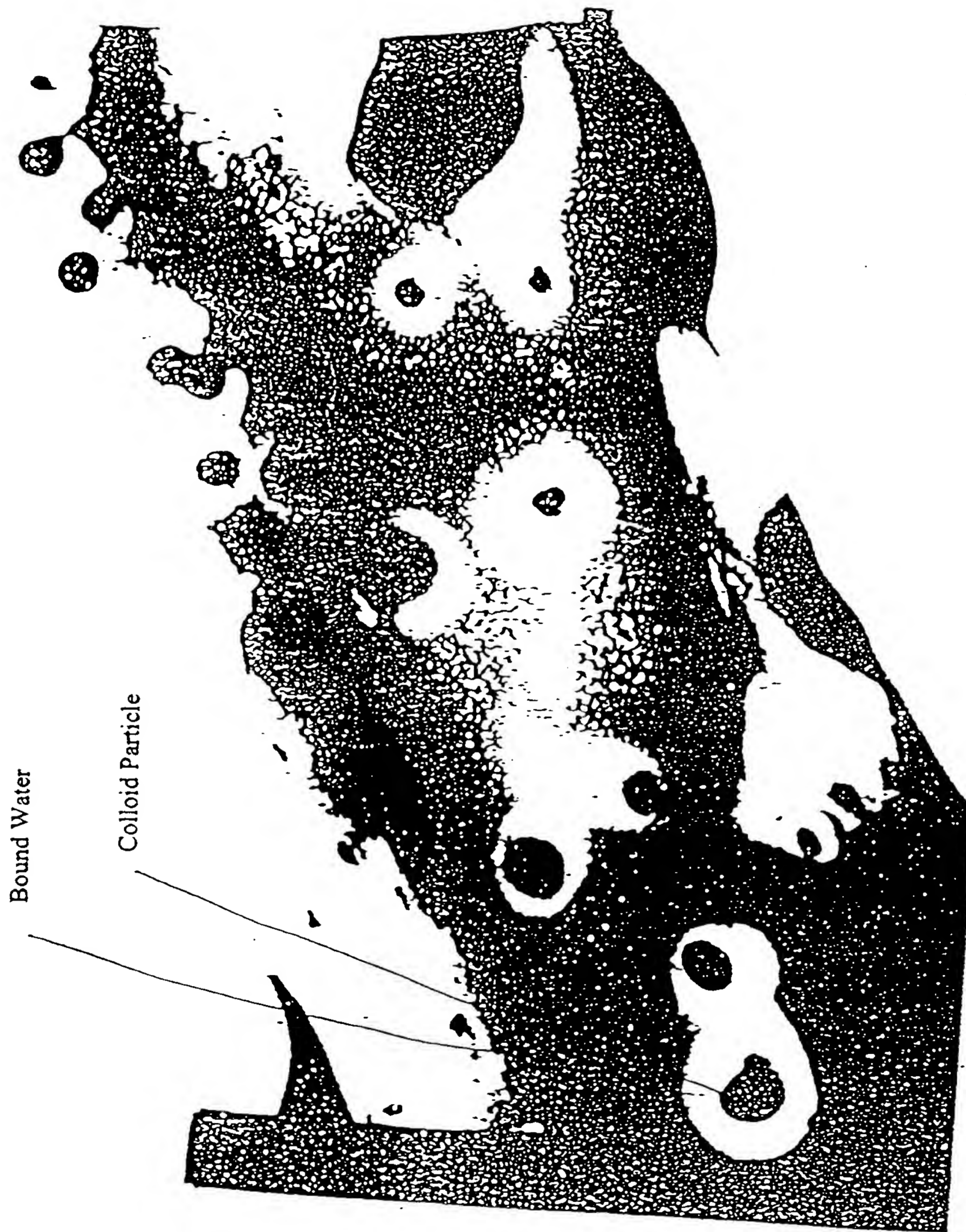
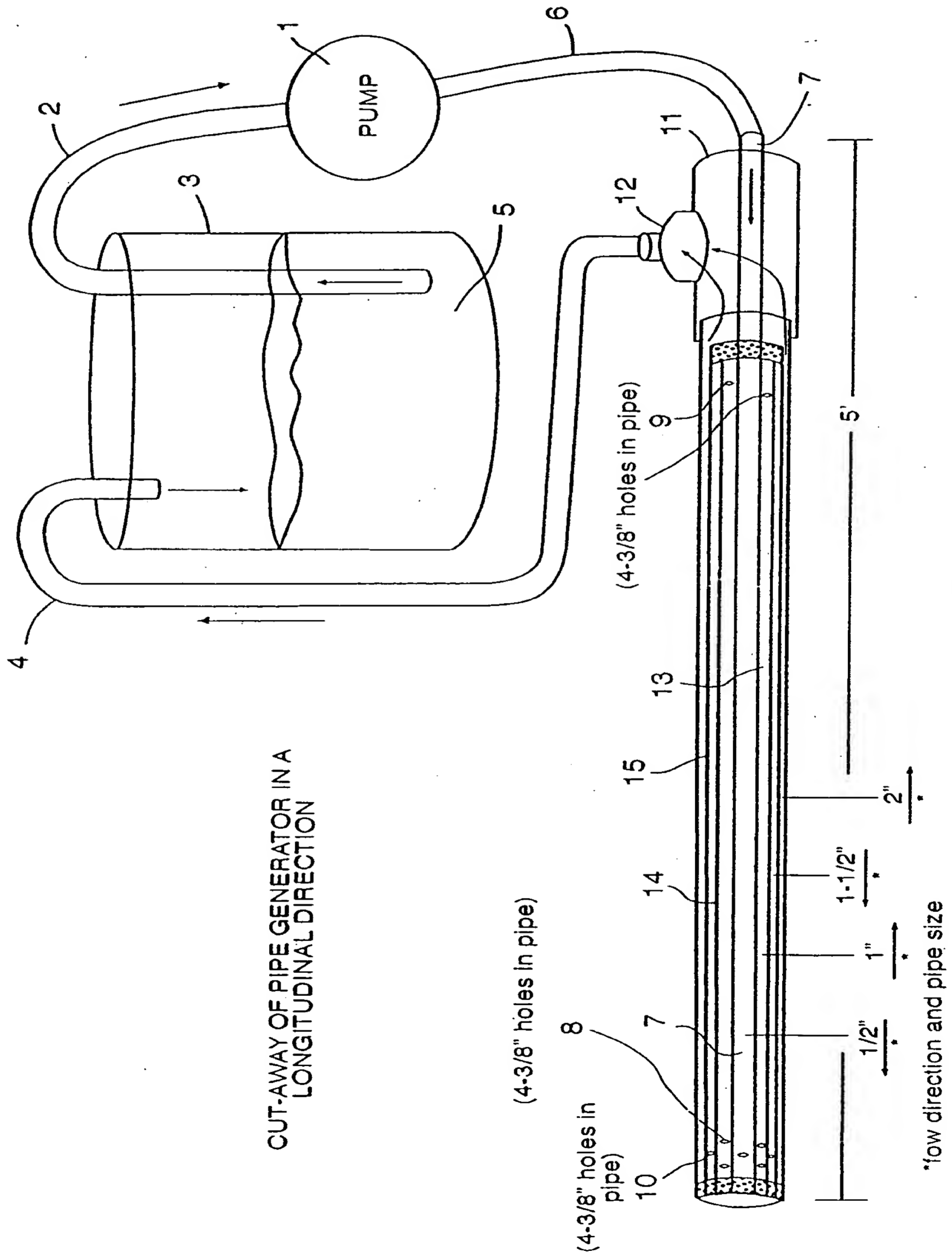
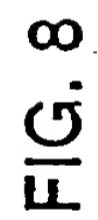


Fig. 6A. Electron photomicro graph of the colloid of the invention.



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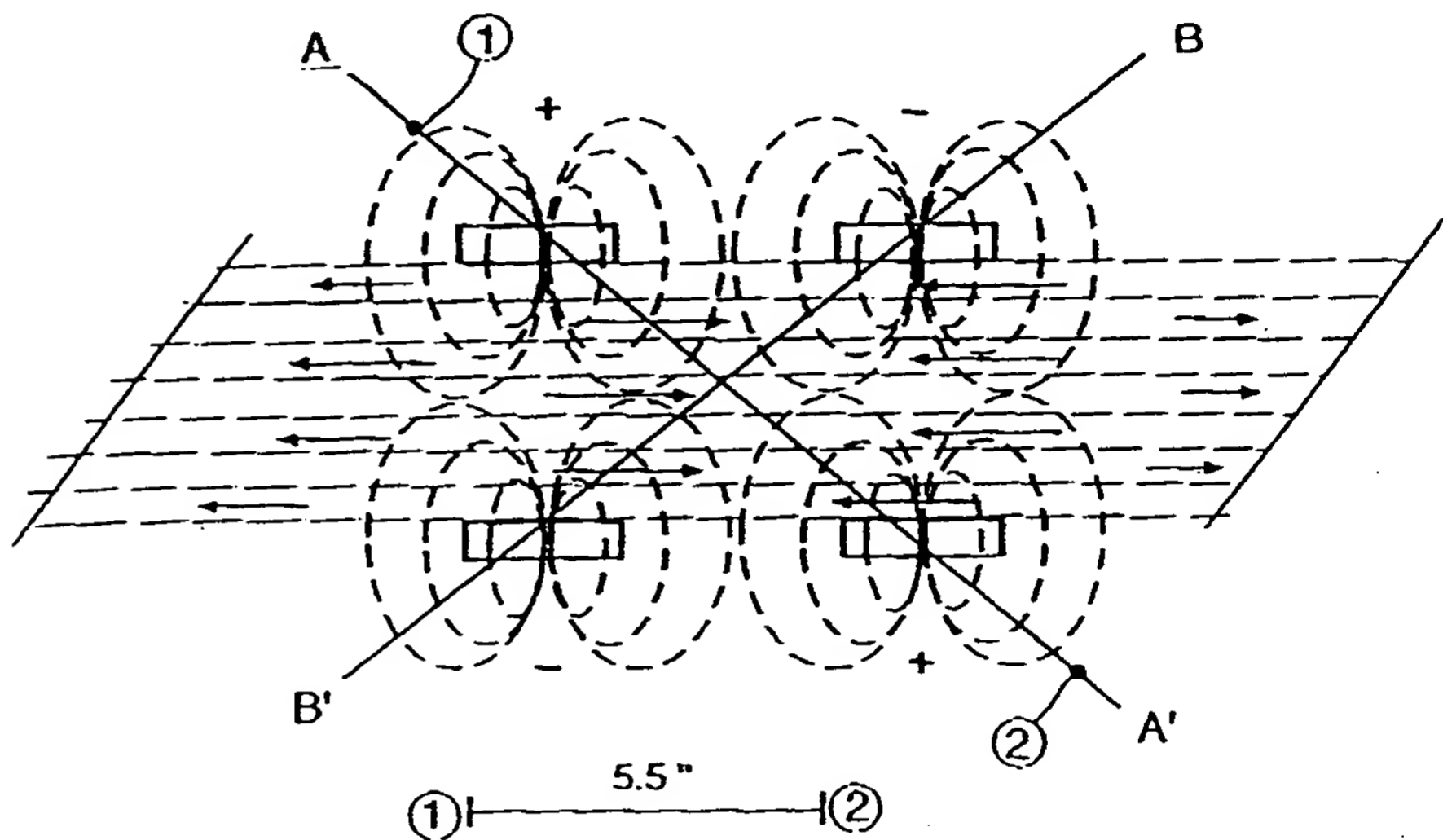






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Cross sectional view of counter current generator of the invention with lines A-A' and B-B' noted for measurement purposes.



Plot of Gradients in "z" axis

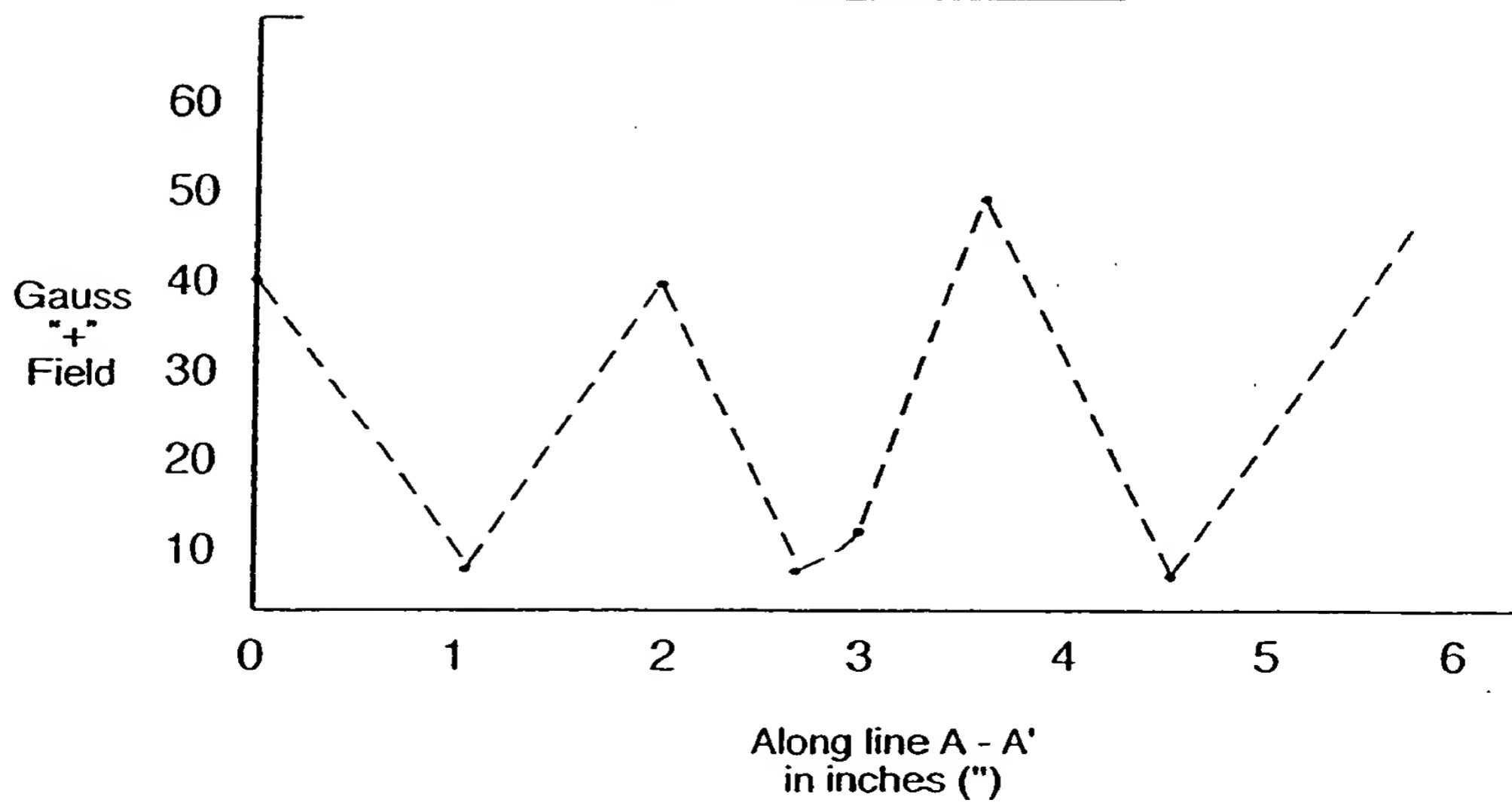


FIG. 9



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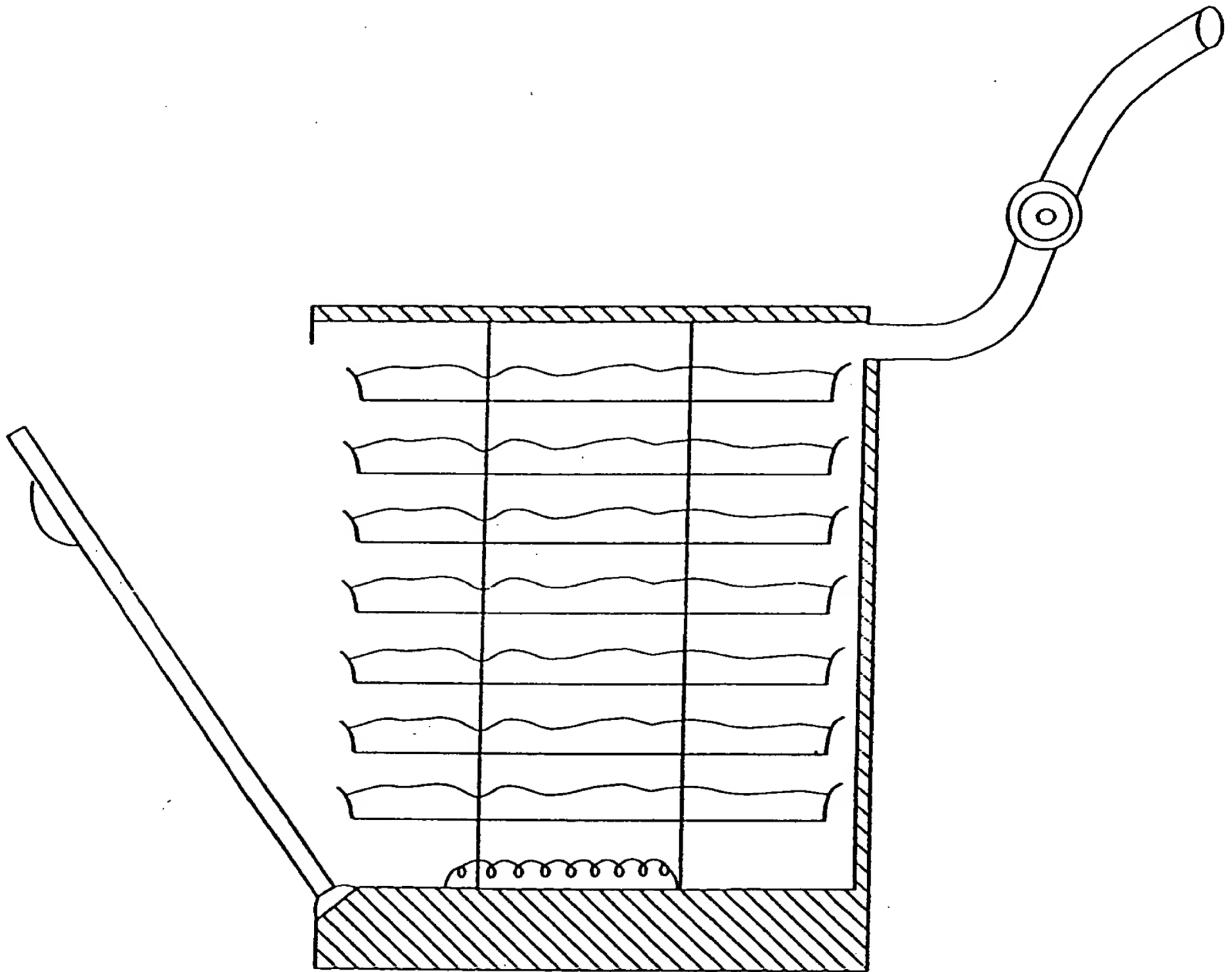


FIG. 10



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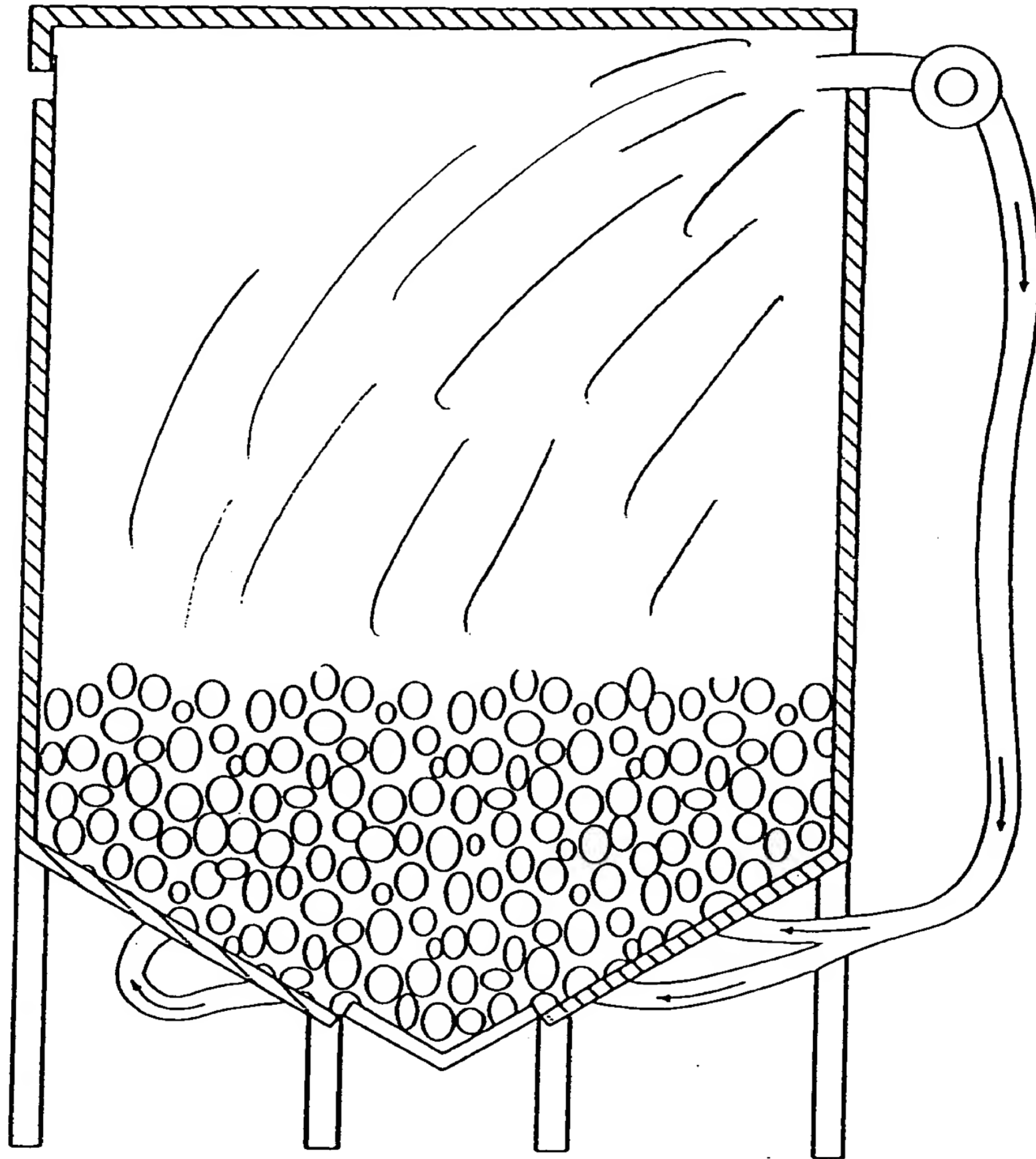


FIG. 11



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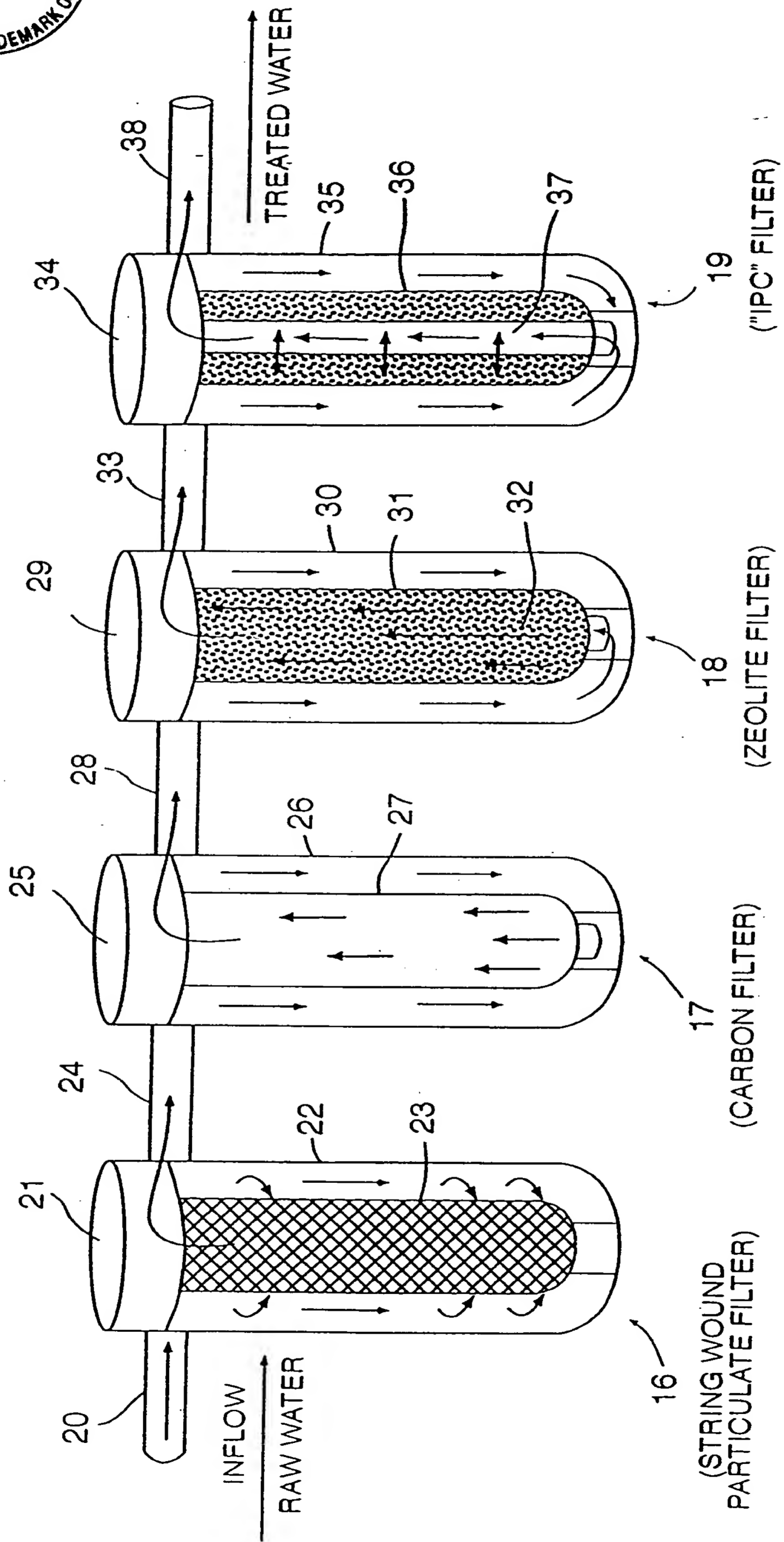


FIG. 12

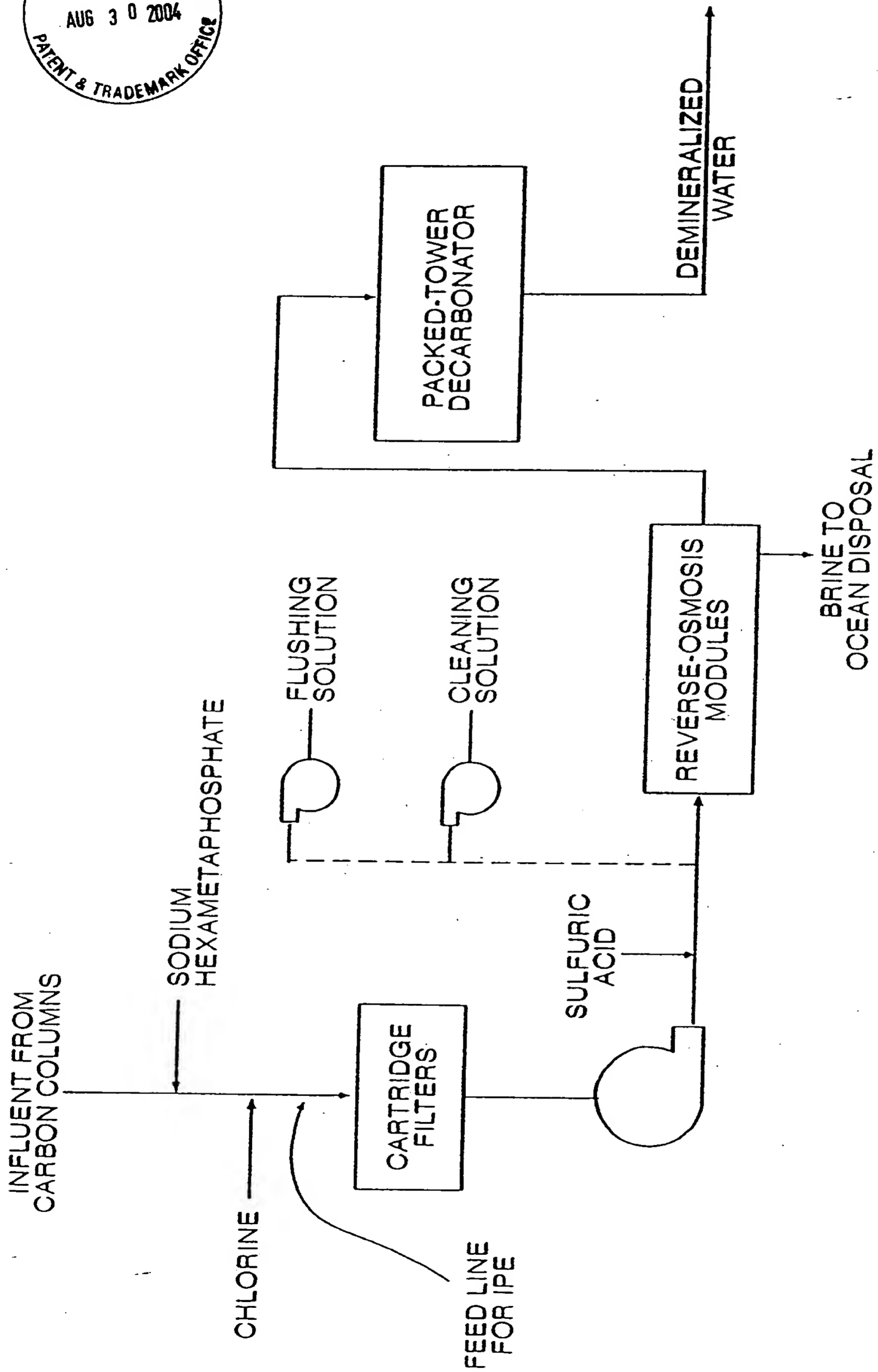


FIG. 13



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HOME WATER SOFTENER, WITH AUTOMATIC CONTROLLER FOR REGENERATION AND SERVICE

IPC CONVERSION

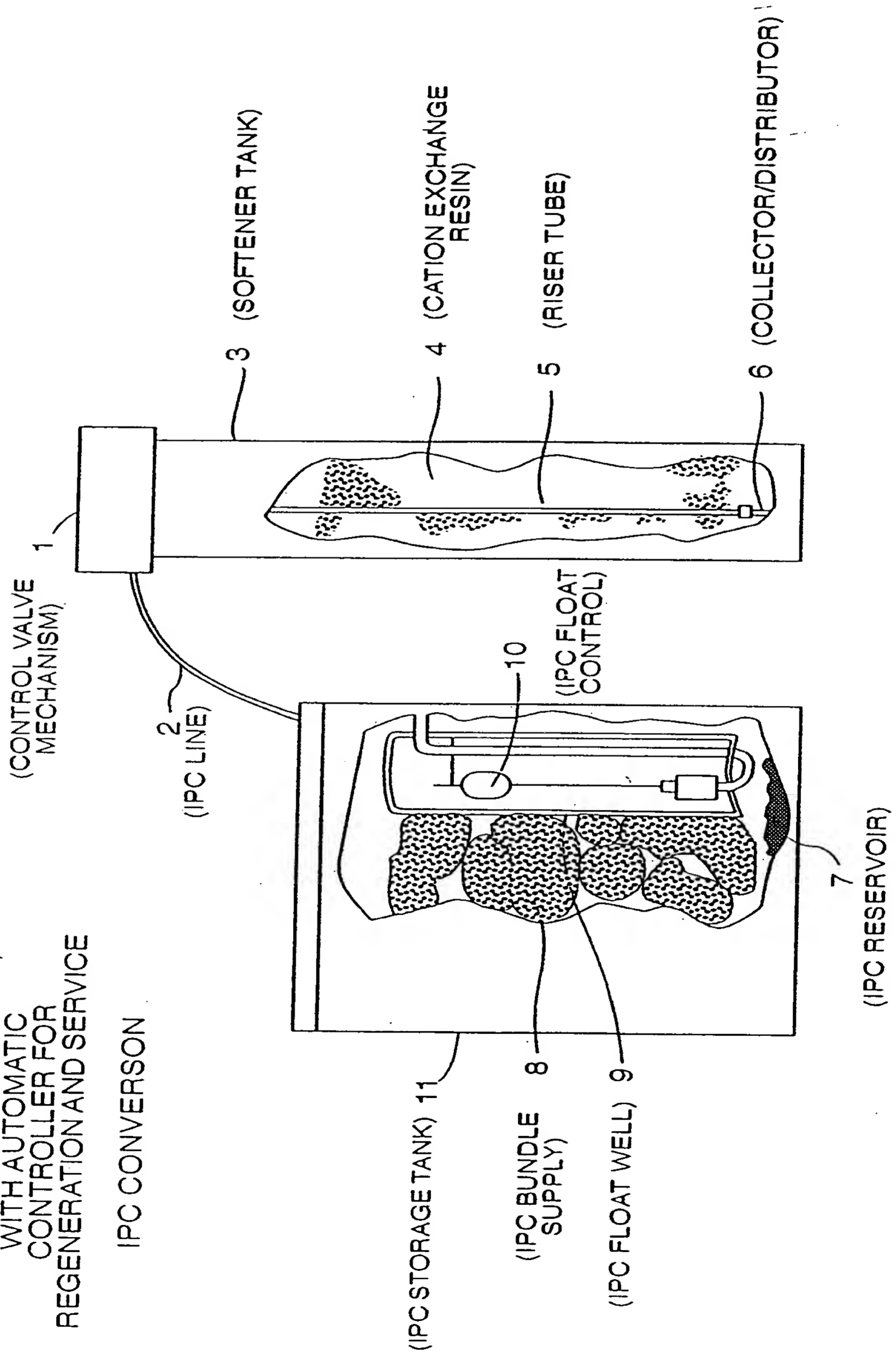
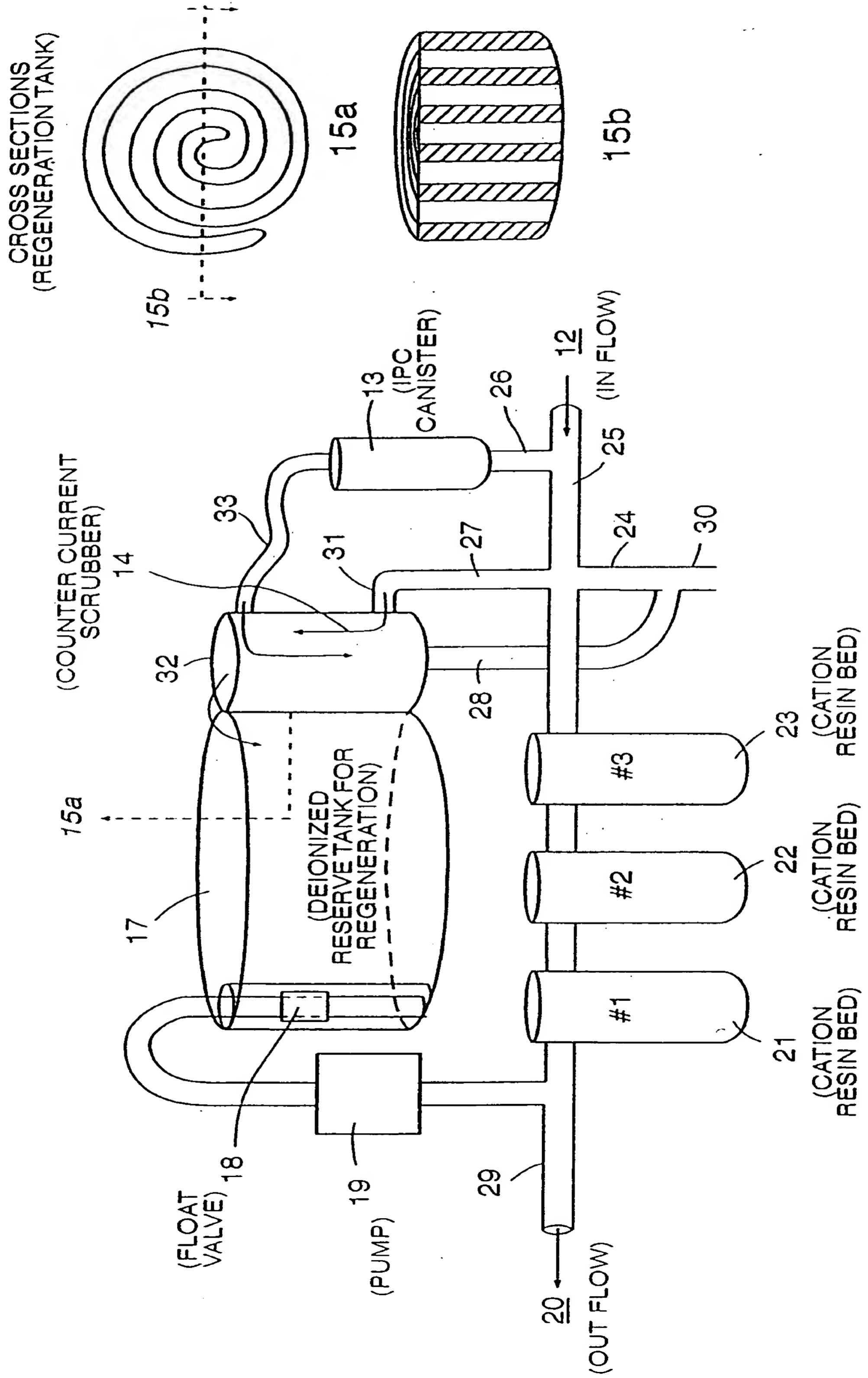


FIG. 14



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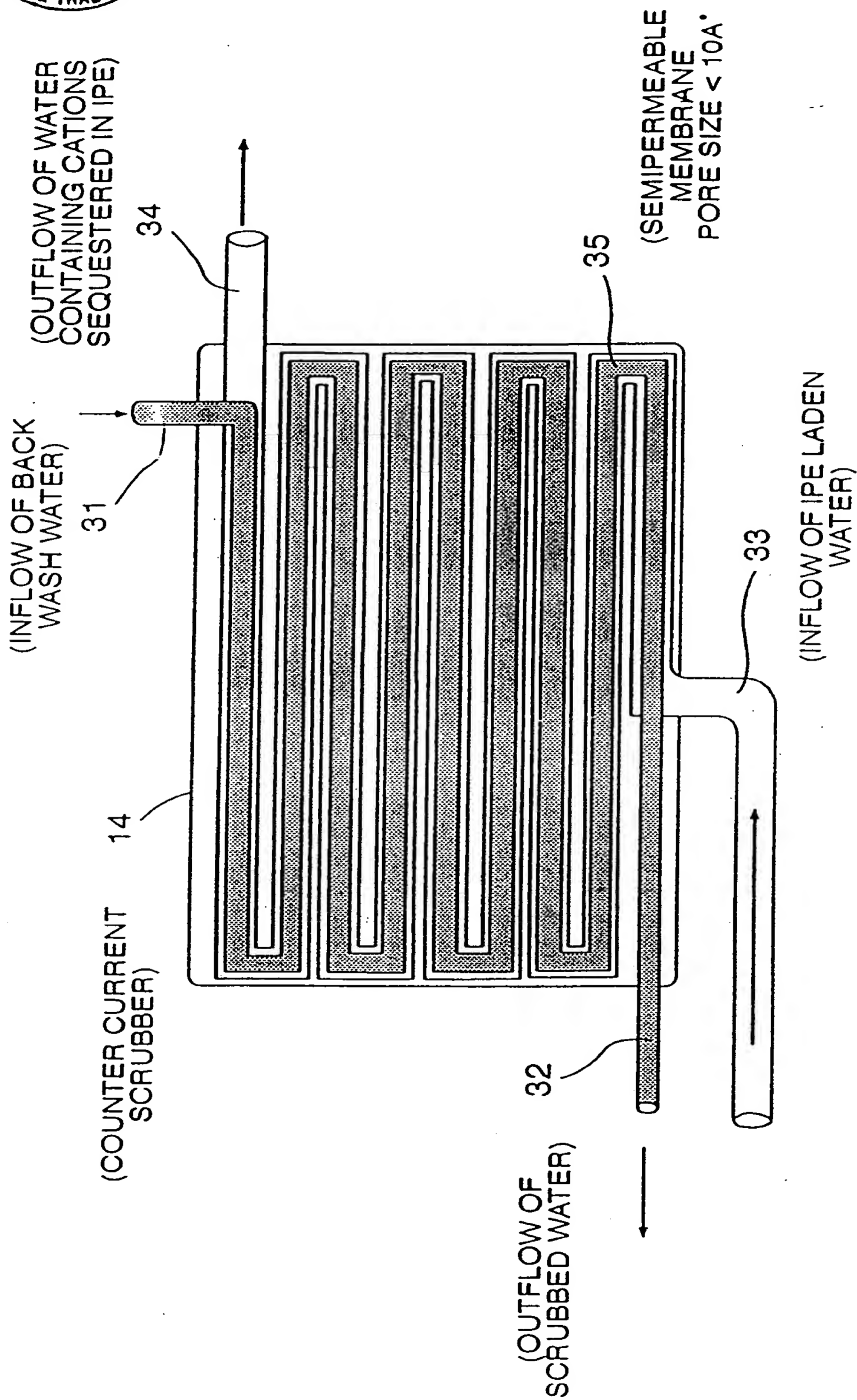


FIG. 16

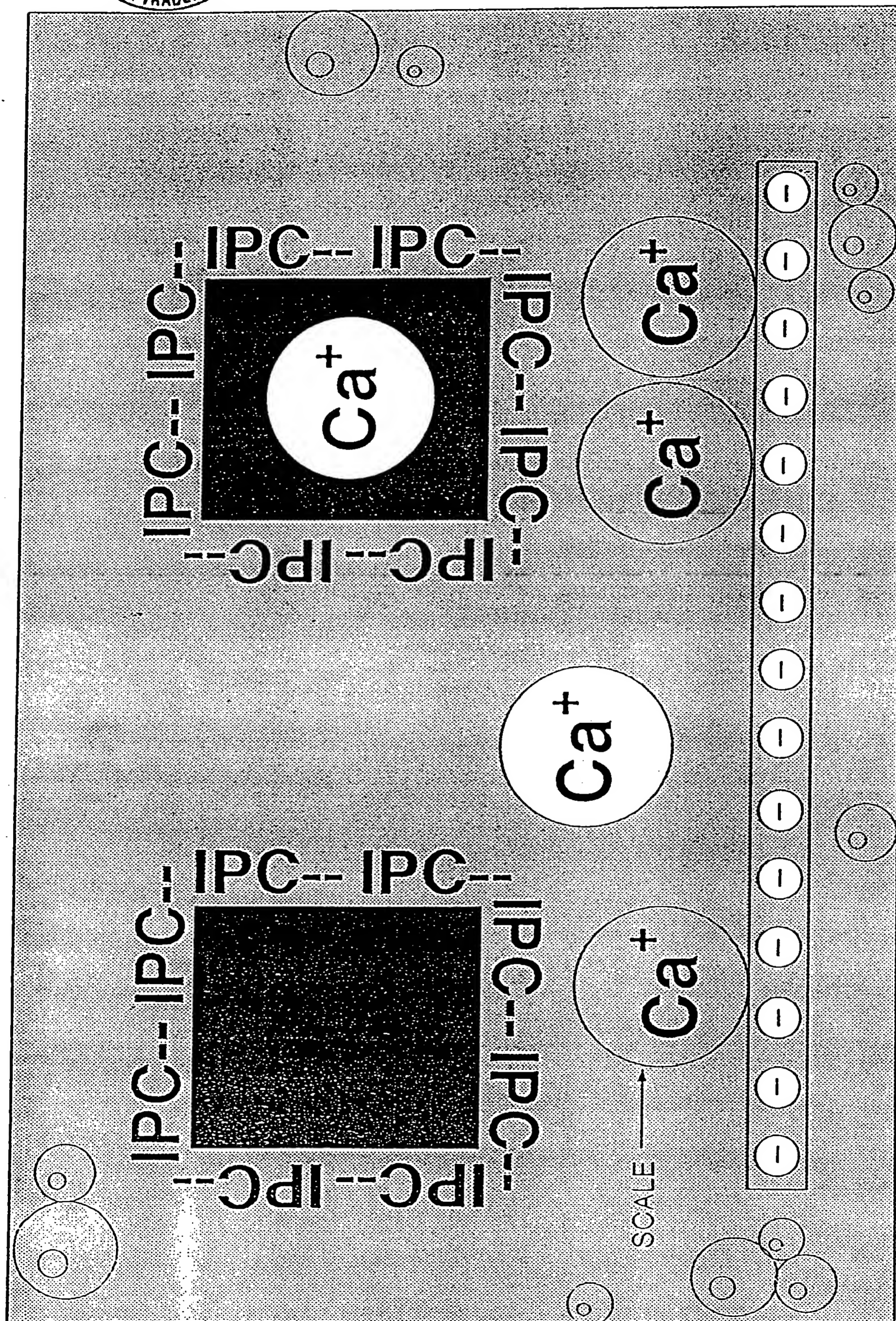


FIG. 17



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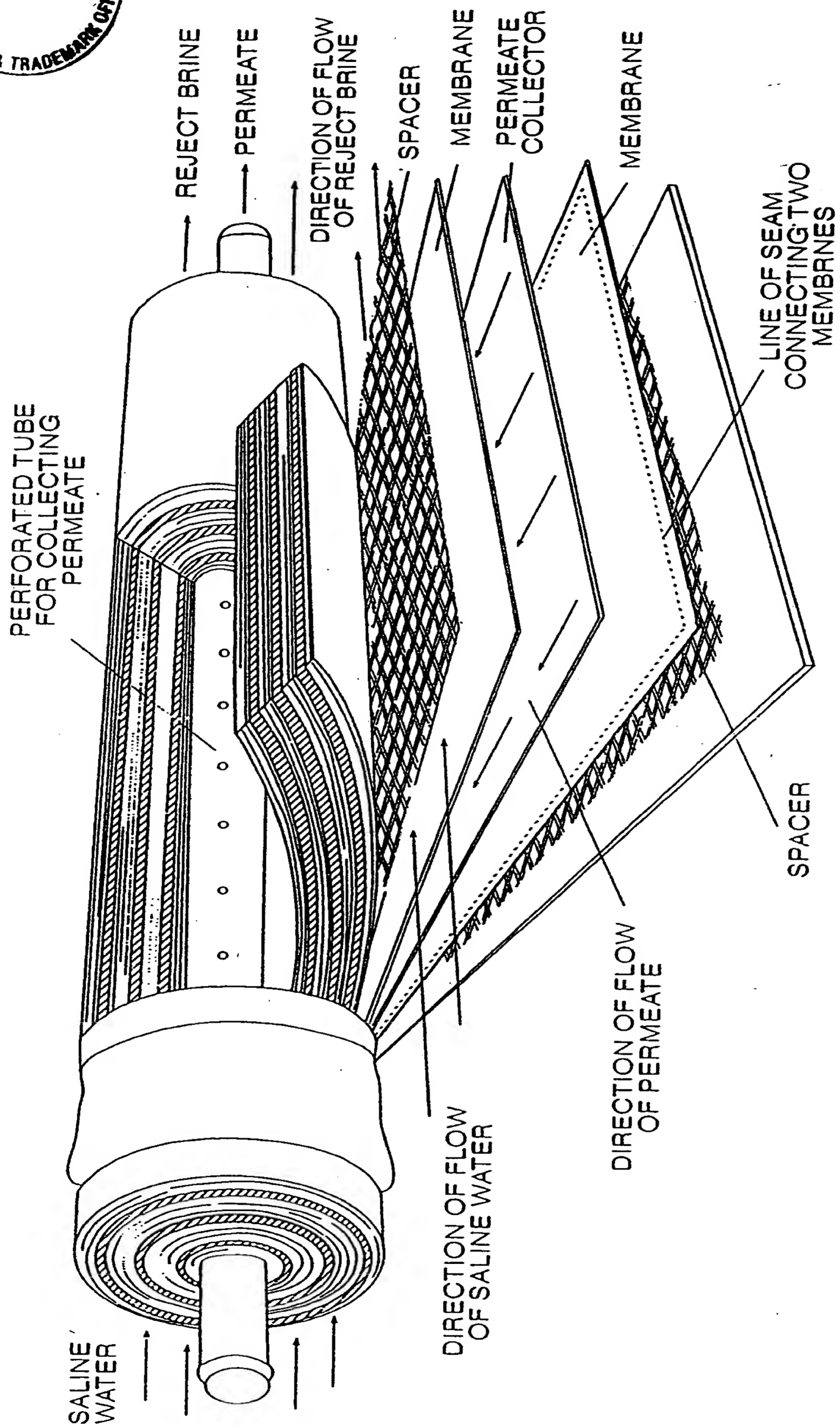


FIG. 18



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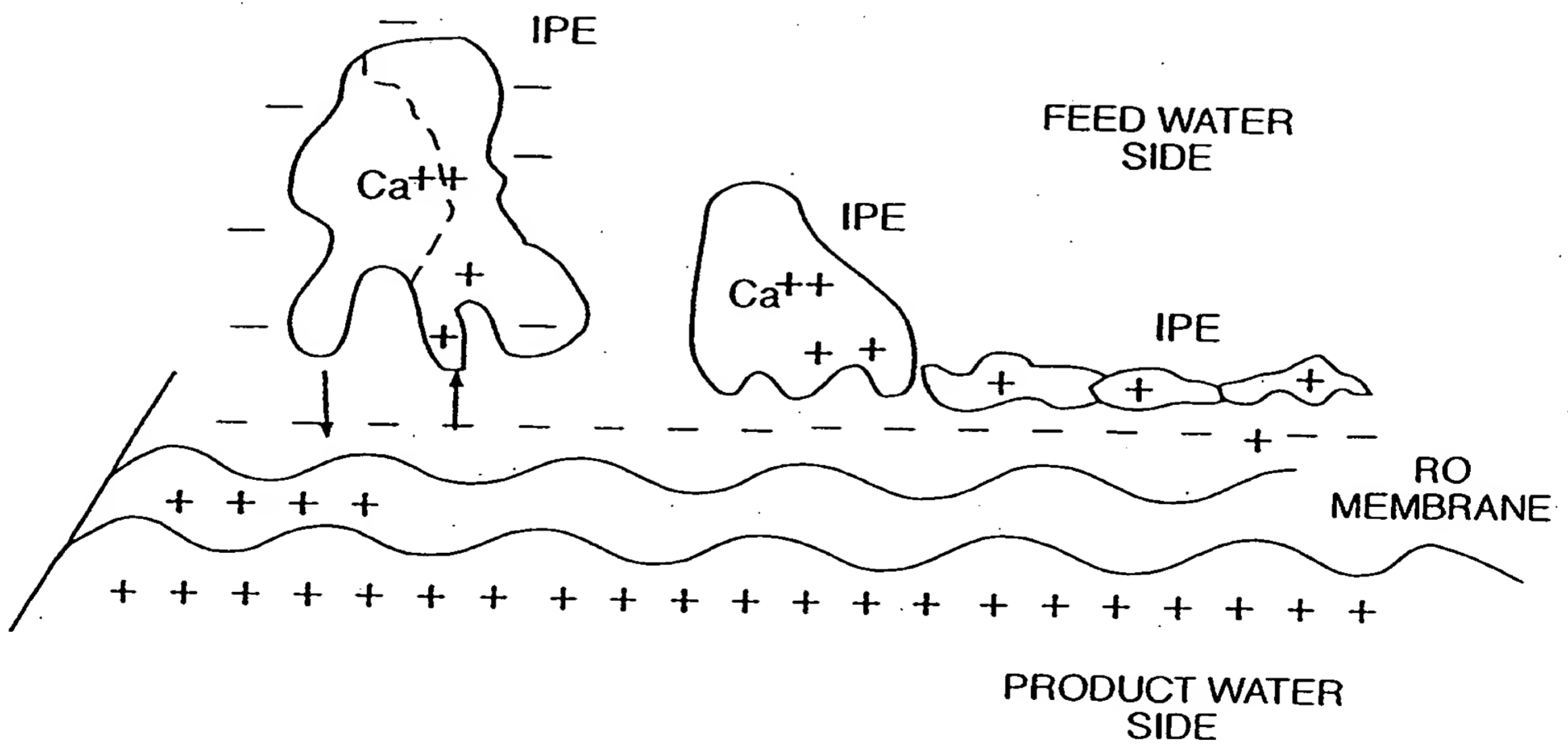
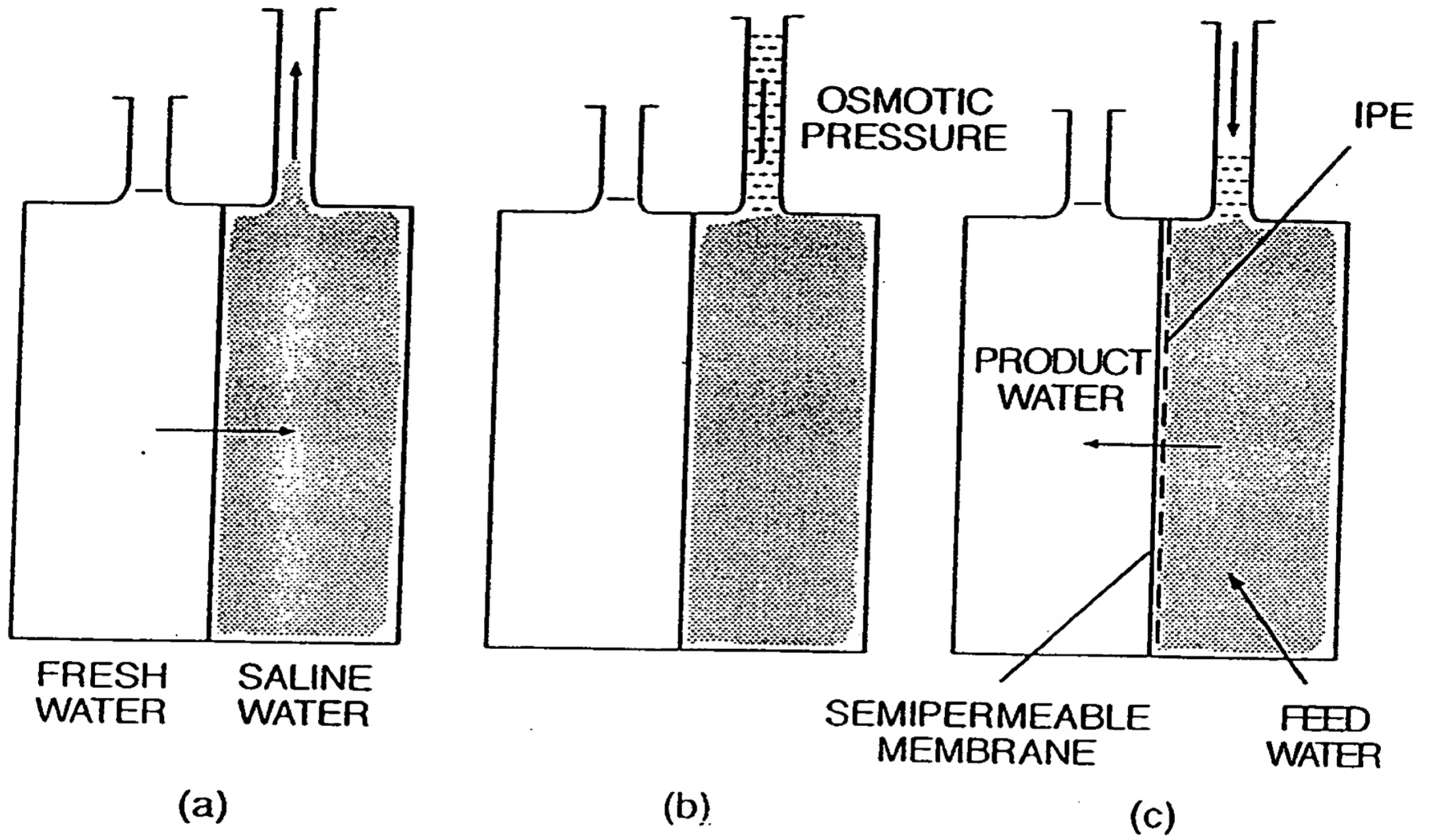


FIG. 19



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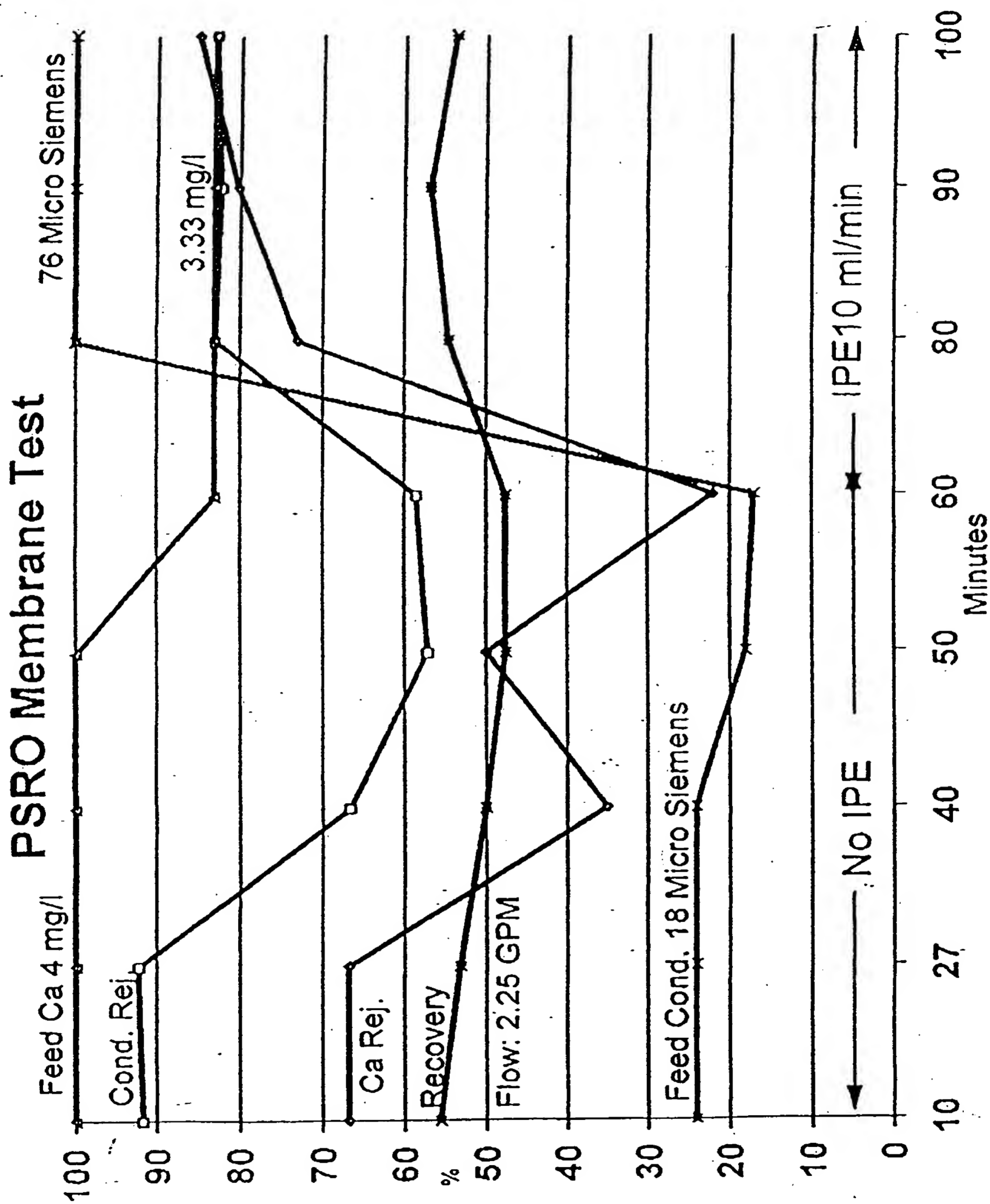


FIG. 20

TFC Membrane Test: Pressure



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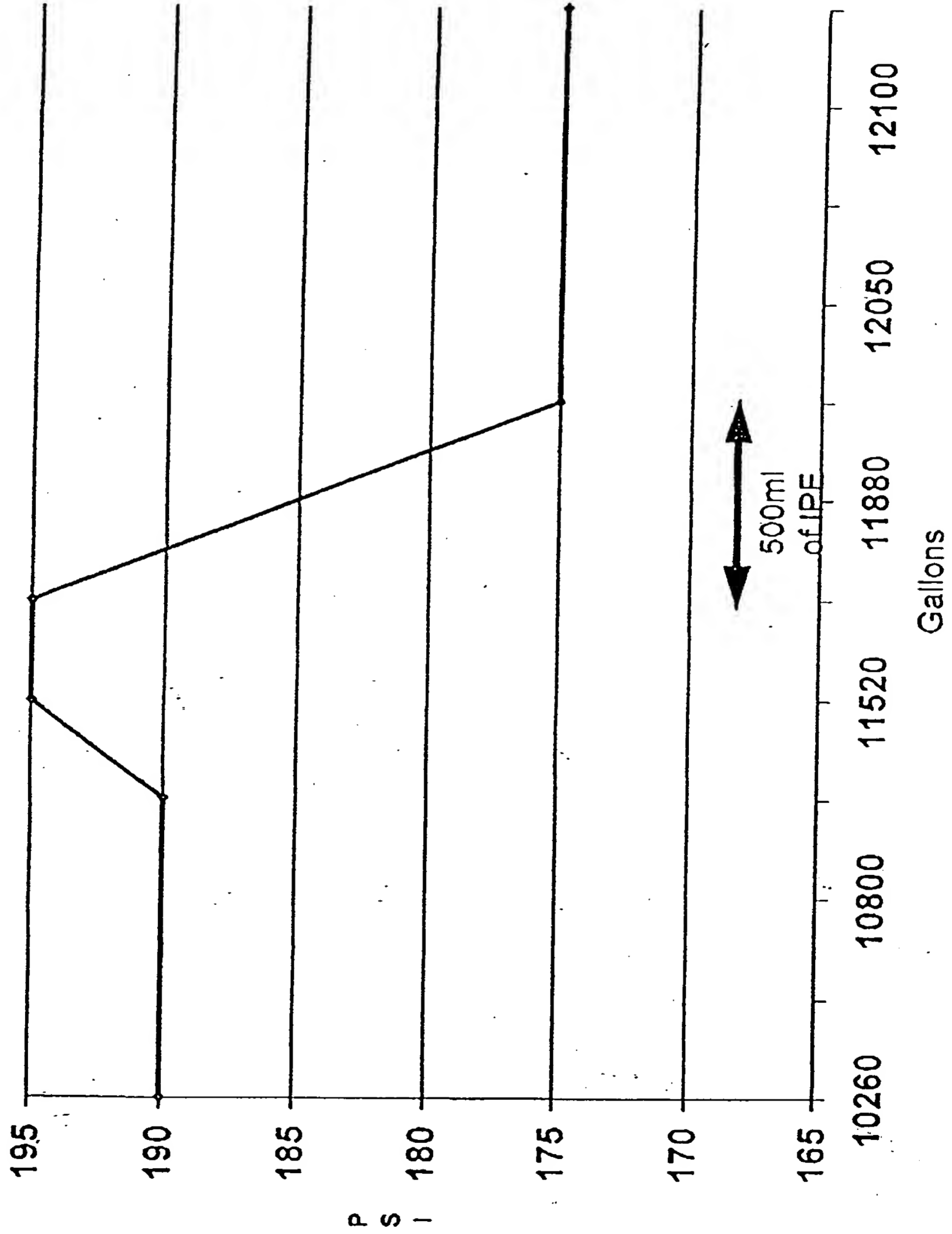


FIG. 21



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TFC Membrane Test: Product Calcium

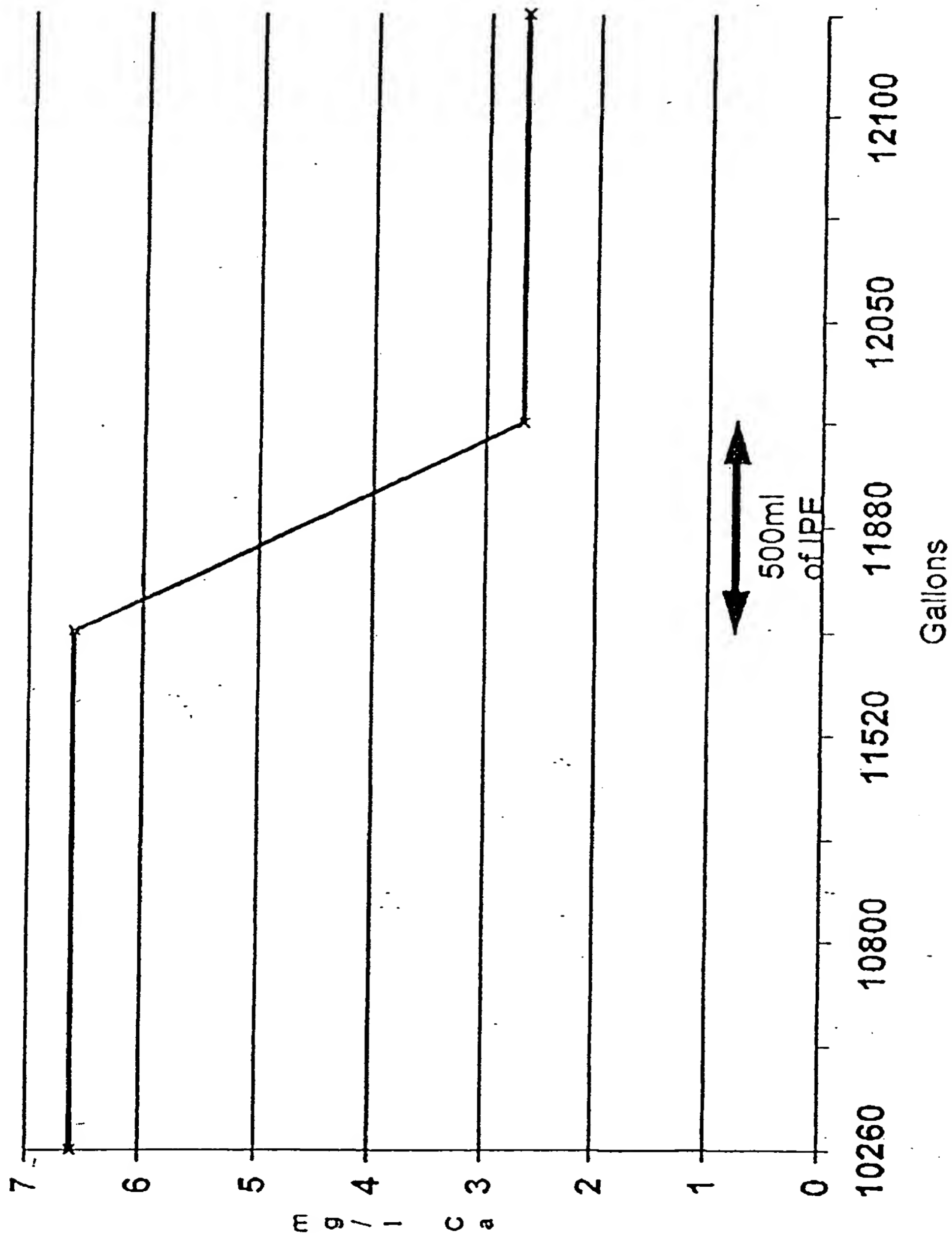


FIG. 22



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TFC Membrane Test: Percent Calcium Rejection

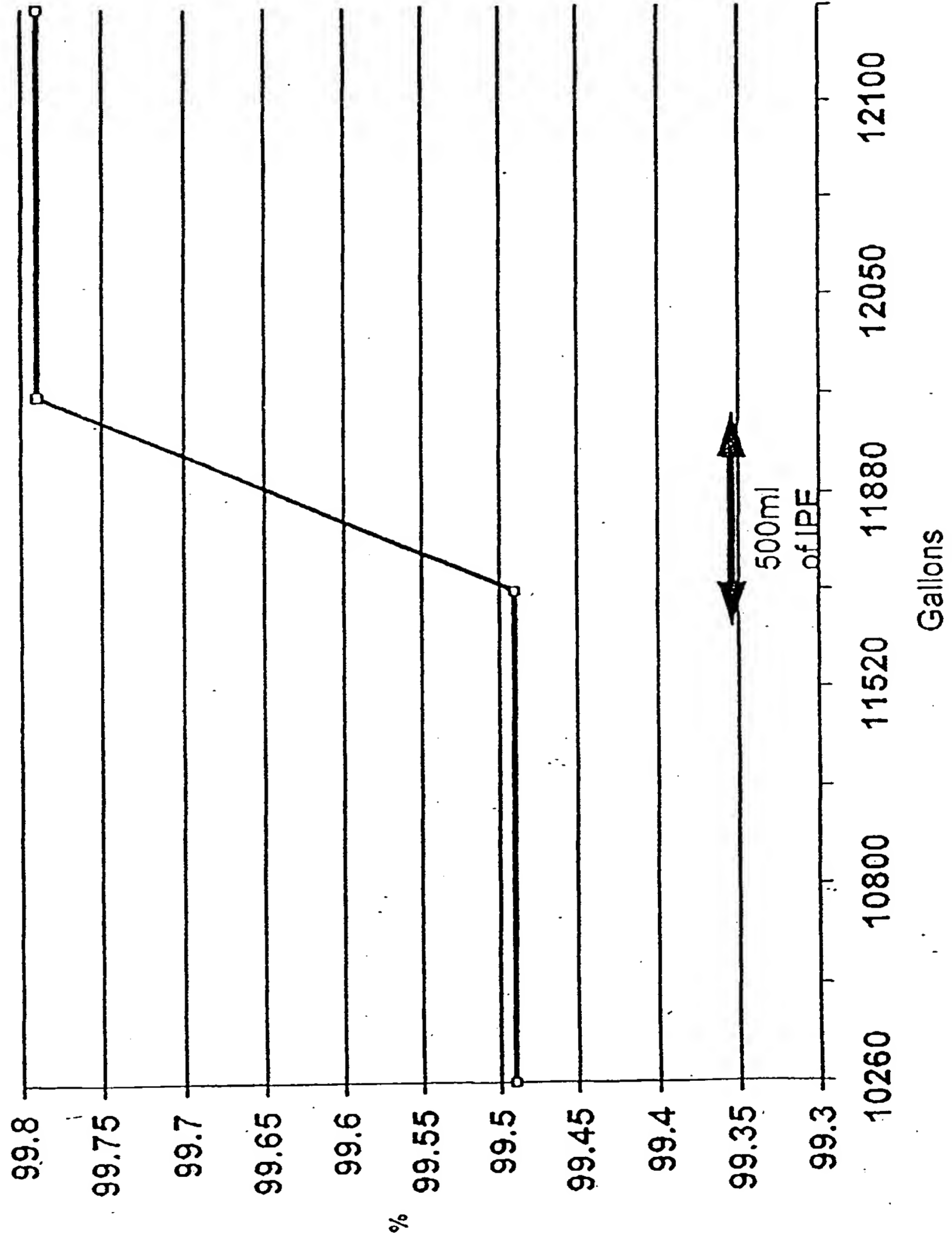


FIG. 23